BRUHAT BENGALURU MAHANAGARA PALIKE

BAR CHART- FIRST AND PART BILL

Name of the Work- Widening and Comprehensive Development of Singapura Garden Road from Abbigere Main Road (Precision Components Factory) to Srinikethan Layout (BDA Layo

BOQ Item No.	Description of Work	Unit	BOQ Qty	Achieved Qty	% Completed	Feb	Mar	Apr	May	June	July	Remaining Qty
						W1 W2 W3 W4	W5 W6 W7 W8 W9	W10 W11 W12 W13	W14 W15 W16 W17	W18 W19 W20 W21 W22	W23 W24 W25 W26	
15	KSRDB/M/02.14 Excavation for roadwork in all types of soil by mechanical means including cutting and loading the spoils, transporting the soil surplus, as directed by the Engineer-in-charge and as per the specifications MORTH Specification No. 301	Cum	10821.73	2971.17	27.46							7850.56
16	Earthwork in excavation for foundation of structures like culverts retaining walls etc as per drawings and technical specifications including setting out measurements of shoring and bracing dressing of sides and bottom back filling with approved material disposal of balance earth as per specifications including cost of labour OCM etc complete in all kinds of soil by Mechanical means	Cum	920.00	908.02	98.22							11.98
17	Disposal of excavated unsuitable road way earth with all lead of 1 Km as per decision of engineer in charge	Cum	10821.73	3479.19	32.15							7342.54
18	KSRDB/M/03.4 Construction of embankments with approved material spreading in uniform horizontal layers and compaction from dense and foundation of other foundation ground and compacted to meet requirement of Table 300-2 complete upto specifications. Where necessary, watering charges & compaction by vibratory roller, MORTH specification No. 305	Cum	1129.65	1129.65	100.00							0.00
19	Providing and laying in position plain cement concrete of mix 1:2:4 for sub-structure works like concrete retaining walls with cement @ 240kg/m3 with 40mm and down size graded granite metal coarse aggregate @ 0.84 cum and fine aggregate @ 0.42cum machine mixed, with concurrent scaffolding form work etc. excluding cost of labour OCM, curing complete	Cum	395.94	247.15	62.42							148.79
21	Providing and laying in position plain reinforced cement concrete M20 for sub-structure/superstructure works with cement @ 320kg/m3 20mm & down size graded granite metal coarse aggregate @ 0.69 cum and fine aggregate @ 0.46 cum machine mixed with super plasticizers @ 1% conforming to IS 9103:1999 concrete laid in layers with compacted and providing weep holes wherever necessary scaffolding form work etc. excluding cost of labour OCM curing etc. complete	Cum	611.10	319.28	52.24							291.82
23	KSRDB/M/27.5.1 Providing and laying Design mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregate @0.69cum and fine aggregate @ 0.46cum with superplasticizer @1% conforming to IS10262:1982 Reaffirmed 2008 excluding cost of reinforcement labour OCM curing, form works, scaffolding and vibrating complete as per specifications. Upto 3 m height	Cum	950.95	396.74	41.73							554.21
24	KSRDB/M/27.9.2 Providing M 25 steel reinforcement for R.C.C. work including straightening, cutting, bending, bowing, placing in position, lapping and/or welding wherever necessary as per bar bending schedule and welding with fetching wire and positioning in the adjoining members wherever necessary complete as per design, hooks and bendings shall not be considered and steel cost of materials labour OCM complete as per specification MORTH Specification No. 1600 & 2200	Tonne	62.73	49.48	78.88							13.25
26	Stone crushed aggregate which has the requirements laid down in clause 2504.2.2 of MORTH specifications in a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided	Cum	72.00	72.00	100.00							0.00
27	Providing and laying Hillstone thick pre-cast cover slabs over drains of width as per concerning RCC mix, using M20 concrete reinforced with steel @ 2.50 kg/Sqft, slight grooved in CM 1:3 proportion and mortar, finished including providing holes & the Cover slabs wherever necessary for easy diversion of surface water including all labour, materials, OCM, cutting, bend and all charges etc. Complete as per MORTH specification No. 1500, 1504	m	1354.40	824.99	54.47							529.41
29	Construction of granular sub-base Grading V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granular improvement materials, leaving to a mechanical mix plant of 1500 T/ hr capacity of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power Clause 401 of MORTH V Revision, roller to achieve the 98 % maximal density complete as per specifications.	Cum	1362.45	1150.88	84.46							211.57
30	KSRDB/M/03.17 Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre-mixing the materials with water at OMC in a mechanical mix plant capacity of normal method of upper sub, laying in uniform layers with payer or sub-baseStone course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH specification No. 406(Table no.20.1)Page no.135 of CSR 2016-17)	Cum	2203.75	1451.67	65.89							752.08

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31	KSBR 5.2 : Providing and constructing side gutters : Imp / Semi size stone masonry in flat bonded with cement mortar , stone horizontal dressed to correct size and bed in cement mortar 1:3 (1 cement : 3 coarse sand) for 20 mm thick joints and in each course, including cost of materials, labour, curing complete as per specifications, KSBR 5.1.1.3	Cum	58.35	58.35	100.00				0.00
32	Providing 20mm plastering to exterior rubble masonry or machine cut stone masonry with cement mortar 20mm thick after raking joints to depth of 25mm in rich lining including cost of material labour 1:4 CM curing complete as per specifications as cement mortar 1:3	Sqm	49.65	450.00	406.34				0.00
34	KSBR 5.14 : Providing and compacting load bearing wall with solid concrete blocks having block density not less than 1800 kg/m3 having a minimum average compressive strength of 4.0 N/mm2, conforming to IS 2185 (Part 1):2005 and constructed with CM 1:4 as per IS 2212:2002 including cost of all materials labour charges, scaffolding, curing, basic chargers of machineries etc. complete as per specifications KSBR No. 5.4 solid wall concrete blocks of size 400 x 200x200mm	Sqm	182.50	182.50	100.00				1824.30
35	Providing 20mm thick cement plaster as simple coat with cement mortar 1:4 to stone masonry and concrete surface including rounding off corners wherever required, smooth finishing and curing etc.complete including cost of materials, labour curing, complete as per specifications as cement mortar 1:3	Sqm	1012.90	888.29	20.30				0.00
38	KSBR 5.6 : Compaction of original ground by mechanical means including filling in depression occurring during rolling including cost of all labour HOM complete as per specifications MORTH Chapter 3	Sqm	3325.00	3325.00	100.00				6648.89
40	Providing and filling pits, size wise, cement concrete kerb stones grade cum of C C 1:2:4 with two side bottom width 114 and 165 mm respectively, 457mm high and 915mm in length finished with CM 1:3 plastering and finishing cutting including curing work, curing, including cost of all materials, labour, hire charges of machineries, loading unloading, load and lift, transportation etc., complete	Nos	8658.89	1742.00	20.05				4999.89
50	KSBRB MS&M: Providing and applying primer coat with S S bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg/ sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision	Sqm	8701.00	4694.29	53.92				6111.83
51	KSBRB 505-3 : Providing and applying tack coat using RS-1(H) grade bitumen VG(30) on granular base, such as WBM surfaces hot bitumen premixed at 4 kg per 10 sqm, heating bitumen in boiler fitted with sprays self-propelling cleaning of road surface including cost of all materials, labour, HOM complete as per specifications Clause 503 of MORTH V revision	Sqm	10716.00	4694.29	42.97				8165.58
52	KSBRB 505-17 : Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction etc all complete complete as per specifications Clause 505 of MORTH V revision	Cum	535.80	230.21	42.97				6908.35
53	KSBRB 505-7 : Providing and applying tack coat using RS-1(H) grade bitumen VG(30) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with sprays, self-propelling cleaning of road surface including cost of all materials, labour, HOM complete as per specifications Clause 503 of MORTH V revision	Sqm	10716.00	4646.65	43.36				6908.35
54	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction etc all lead to complete as per specifications Clause 507 of MORTH V revision as per IRC SP: 53-2015 using 40-65 TPH capacity HMP with sensor paver grading II (20-45mm) with 5.4% of crushed bituminous binder consisting of 4.97% of VG-30 bitumen (60/70) grade and 0.43% of plasticizers & thermoplastics	Cum	321.48	134.36	41.79				187.12

Total Duration of the work

Completed Qty. during the time of work

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